Government of Western Australia
Department of Water and Environmental Regulation

Amended Licence

Licence number	L8155/2004/2
Licence holder	EDL NGD (WA) Pty Ltd
ACN	070 941 721
Registered business address	Level 6 1 Eagle Street BRISBANE QLD 4000
DWER file number	DER2015/001548
Duration	18/06/2012 to 17/06/2023
Date of amendment	19/05/2020
Premises details	Broome Power Station Part of Lot 1049 on Plan 213567 2 – 4 McDaniel Road MINYIRR WA 6725 As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed design capacity**
Category 52 Electric power generation: premises (other than premises within category 53 or an emergency or standby power generating plant) on which electrical power is generated using a fuel.	37 MW

This amended licence is granted to the Licence Holder, subject to the attached conditions, on 19 May 2020, by:

Caron Goodbourn

Digitally signed by Caron Goodbourn
Date: 2020.05.20 09:26:43 +08'00'

Manager, Process Industries

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
18/06/2007	L8155/2004/1	New licence application
18/06/2012	L8155/2004/2	Licence re-issue
16/08/2012	L8155/2004/2	Licence amendment
19/05/2020	L8155/2004/2	Licence Holder initiated amendment to update site boundaries and layout, addition of emergency back-up generators and authorise time limited operation of three diesel engine generators, increasing name plate capacity from 34 MW to 37MW.

Interpretation

In this licence:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice means the version of the standard, guideline, or code of practice in force at the time of granting of this licence and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the licence;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The Licence Holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The Licence Holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.

Table 1: Infrastructure and equipment requirements

Site infrastructure and equipment		Operational requirements	Infrastructure location
Electric power generation	17 x 1.85 MW Caterpillar G3520 C radiator cooled reciprocating gas engines	Exhaust emissions to be discharged via 17 stacks located 12.5m above ground level (AGL)	Schedule 1: Premises layout GM01 – GM17
	3 x CAT3512 diesel fueled engines (total 3 MW)	Peak Shaving engines Exhaust emissions to be discharged via 3 stacks located 3m AGL	Schedule 1: Premises layout F1 - F3
	2 x 1,250 MTU kVA diesel engines (total 2.5 MW)	Emergency standby engines Exhaust emissions to be discharged via 2 stacks located 5.1m AGL; and Diesel generators must be located within impermeable bunded compounds	Schedule 1: Premises layout C1 - C2
	4 x Cummins KTA 50 0.9 MW diesel fuelled generators	Emergency standby engines Exhaust emissions to be discharged via 2 stacks located 5.1m AGL; and Diesel generators must be located within impermeable bunded compounds	Schedule 1: Premises layout D5 - D8
	Transformer stations	Must be operated to comply with AS 2067	Not shown
Hydrocarbon / chemical storage	1 x self bunded 55kL diesel tank; 1 x 610 kL diesel storage tank; 1 x 16kl diesel tank; and dual hose bowser and pipework	All hydrocarbon and chemical storage areas must be designed and constructed in accordance with AS 1940; and Spills or leaks of hydrocarbons and chemicals must be immediately cleaned up and stored in impervious containers for disposal via licenced contractor	Schedule 1: Premises layout Diesel storage tanks #1, #5 and #7
	Diesel day tanks (x 5), waste oil tanks (x 2), and lubricant tank (x 1)	Must be located within a bund that complies with AS 1940	Schedule 1: Premises layout

Site infrastructure and equipment		Operational requirements	Infrastructure location
Contaminated stormwater treatment	Oily Water Separator System	Hydrocarbon contaminated stormwater generated on the Premises must be directed to the Oily Water Separator System prior to discharge to the L1 discharge point as depicted in Schedule 1: Premises layout	Schedule 1: Premises layout Oily water separator and discharge

Emissions and discharges

Emissions to air

2. The Licence Holder must ensure that the emissions specified in Table 2 are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 2: Authorised discharge points

Emission	Discharge point	Discharge point location as shown in Schedule 1: Premises map	Discharge requirements
NOx, SO_2, CO, VOC, PM	17 x 1.85 MW Caterpillar G3520 C radiator cooled reciprocating gas engines	Discharge points A1 – A17 inclusive	Emission point heights must be ≥ 12.5m AGL
	3 x CAT3512 diesel fueled engines (total 3 MW)	Discharge points F1 - F3 inclusive	Emission point heights must be ≥ 3m AGL
	2 x 1,250 MTU kVA diesel engines (total 2.5 MW)	Discharge points C1 - C2 inclusive	Emission point heights must be ≥ 5.1m AGL
	4 x Cummins KTA 50 0.9 MW diesel fuelled generators	Discharge points D5 - D8 inclusive	Emission point heights must be ≥ 5.1m AGL
Treated stormwater	L1: Outlet of Oily Water Separator	Discharge Point L1	Discharge to Oily Water Separator seepage trench

3. The Licence Holder shall target point source emissions to air at or below the levels specified in Table 3.

Table 3: Point source emissions targets to air

Discharge point	Parameter	Target (including units)[1,2]	Averaging period
A1 – A17 inclusive	Oxides of Nitrogen	≤ 650 mg/m^3	1 hour

1: All units are referenced to STP dry.
2: All units are referenced to 6% O_2.

4. The Licence Holder must ensure that operation of the generators listed in Table 4 does not exceed the corresponding operational limits specified in Table 4.

Table 4: Operational limits

Generators	Operational Limit[1, 2]
3 x CAT3512 diesel fueled engines	Shall only be operated as Peak Shaving Prime Generators between the months of October 2020 to April 2021 (inclusive) and must not be operated for more than 224 hours during that period.
	Must use low Sulphur content diesel at all times as fuel source

Note 1: Operational Limits do not apply during times the CAT3512 engines are operated as Emergency or Standby Power Generating Plant.
Note 2: Operational Limits (excluding the use of low sulphur diesel) shall be reviewed prior to 30 April 2021 following the provision by the Licence Holder to the CEO of air quality modelling in relation to the operation of the CAT3512 diesel fuel engines.

Emissions to land

5. The Licence Holder must ensure that emissions from the discharge point listed in Table 5 for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 9.

Table 5: Discharge limits

Discharge point	Parameter	Limit
L1 (Outlet of Oily Water Separator System) As shown in Schedule 1: Premises layout	TRH	≤ 15mg/L

Monitoring

Emissions to air

6. The Licence Holder must monitor emissions:

(a) from each discharge point;

(b) for the corresponding parameter;

(c) in the corresponding unit;

(d) at the corresponding frequency; and

(e) using the corresponding method,

as set out in Table 6.

Table 6: Monitoring of point source emissions to air

Discharge point	Parameter	Units[1, 5]	Frequency[2, 3, 4]	Averaging period	Method
A1 – A17 inclusive	Volumetric flow rate	m^3/s	Triennially (such that each engine unit is sampled once every 3 years)	60 minutes	USEPA Method 2
	SO_2	mg/m^3 g/s			USEPA Method 6C
	NOx (as NO_2)				USEPA Method 7E or 7D
	CO				USEPA Method 10

Discharge point	Parameter	Units[1, 5]	Frequency[2, 3, 4]	Averaging period	Method
F1 – F3 inclusive	Volumetric flow rate	m^3/s	At least once during operation as Peak Shaving generators (prior to 30 April 2021)	60 minutes	USEPA Method 2
	SO_2	mg/m^3 g/s			USEPA Method 6
	NOx (as NO_2)				USEPA Method 7E or 7D
	CO				USEPA Method 10
	PM_{10}				USEPA Method 5 or USEPA Method 17

1: All units are referenced to STP dry
2: Triennial monitoring shall be undertaken at least 27 months apart.
3. Annual monitoring shall be undertaken at least 9 months apart.
4: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.
5: All units are referenced to 6% O_2

7. The Licence Holder shall ensure that sampling required under Condition 6 of the Licence is undertaken at sampling locations in compliance with the AS4323.1

8. The Licence Holder shall ensure that all non-continuous sampling and analysis undertaken pursuant to condition 6 for the parameters specified in Table 6 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.

Emissions to land

9. The Licence Holder must monitor emissions:

(a) from each discharge point;

(b) at the corresponding monitoring location;

(c) for the corresponding parameter;

(d) at the corresponding frequency;

(e) for the corresponding averaging period;

(f) in the corresponding unit; and

(g) using the corresponding method,

as set out in Table 7.

Table 7: Discharge monitoring

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method	
						Sampling	Analysis
L1: Outlet of Oily Water Separator	Schedule 1: L1	TRH	Annually: at least once per year during periods of discharge	Spot sample	mg/L	AS5667.1 and AS5667.10	NATA Accredited

Records and reporting

10. The Licence Holder must maintain accurate and auditable Books including the following records, information, reports, and data required by this Licence:

(a) the calculation of fees payable in respect of this Licence;

(b) any maintenance of infrastructure that is performed in the course of complying with Condition 1 of this Licence;

(c) monitoring programmes undertaken in accordance with Conditions 6, 7, 8 and 9 of this licence; and

(d) complaints received under Condition 12 of this licence.

11. The Books specified under Condition 10 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the Licence Holder for the duration of the licence; and

(d) be available to be produced to an Inspector or the CEO as required.

12. The Licence Holder must record the following information in relation to complaints received by the Licence Holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the Licence Holder to investigate or respond to any complaint.

13. The Licence Holder must, within 7 days of becoming aware of any non-compliance with Condition 4 of this licence, notify the CEO in writing of that non-compliance and include in that notification the following information:

(a) the time and date when the non-compliance occurred;

(b) if any environmental impact occurred as a result of the non-compliance and if so what that impact is and where the impact occurred;

(c) the risk of any public health impact(s) as a result of the non-compliance and if so what that risk of impact is and where the risk of impact occurred;

(d) the details and result of any investigation undertaken into the cause of the non-compliance;

(e) what action has been taken and the date on which it was taken to prevent the non-compliance occurring again; and

(f) what action will be taken and the date by which it will be taken to prevent the non-compliance occurring again.

14. The Licence Holder must:

(a) undertake an audit of their compliance with the Conditions of this Licence during the preceding Annual Period; and

(b) prepare and submit to the CEO by no later than 31 July after the end of that Annual Period an Annual Audit Compliance Report for that Annual Period in the Approved Form.

15. The Licence Holder must submit to the CEO by no later than 31 July after the end of each Annual Period, an Annual Environmental Report for that Annual Period for the Conditions listed in Table 8, and which provides information in accordance with the corresponding requirement set out in Table 8.

Table 8: Annual Environmental Report

Condition	Requirement
6	(a) Monitoring of point source emissions to air data in tabulated and graphical form including the sampling date; (b) a comparison of the monitoring data against the targets set in condition 3; (c) an assessment and interpretation of the data including comparison to historical trends; and (d) copies of laboratory sample analysis reports.
9	(a) results of the discharge to land monitoring from the outlet of the Oily Water Separator including the sampling date; (b) a comparison of the monitoring data against the discharge limit set in condition 5; and (c) copies of laboratory sample analysis reports.
-	The Report must contain a summary of complaints records for the reporting Annual Period.
-	The Report must contain any issues raised from inspections or incident responses during the reporting period together with details as to how these have been addressed / rectified or, if the required work has yet to be completed, how and when they will be completed / rectified.
-	The Report must contain any changes to site boundaries, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution.

Definitions

In this Licence, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
ACN	Australian Company Number
AGL	above ground level
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
Annual Period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
Approved Form	the AACR Form template approved by the CEO for use and available via DWER's external website.
AS 1940	Australian Standard 1940-2004: The storage and handling of flammable and combustible liquids
AS 2067	Australian Standard 2067-2008: Substations and high voltage installations exceeding 1 kV a.c.
Books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
Department	means the department established under section 35 of the *Public Sector Management Act 1994* (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
Emergency or Standby Power Generating Plant	means the use of power generation equipment during periods of emergency or as a standby power source, including times such as: • when generators are operated for brief periods throughout the year to ensure regular servicing; • preceding, during and following cases of disruption to the supply of LNG to the Main Station as reasonably required to manage LNG inventories and maintain the continuous supply of electricity to the Broome community (unlimited hours); and • in the event of unplanned equipment failure that affects the use of a gas generator(s) (unlimited hours).
emission	has the same meaning given to that term under the EP Act.
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
Inspector	means an inspector appointed by the CEO in accordance with s. 88 of the EP Act
Licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
Licence Holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
Peak Shaving	means a Prime Generator used during peak times of usage to allow load management of electricity supplied

Term	Definition
Premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this licence.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Prime Generator	means a generator used as a Premises main source of continuous power
TRH	Total Recoverable Hydrocarbons
Waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is depicted and defined by the coordinates in Figure 1.

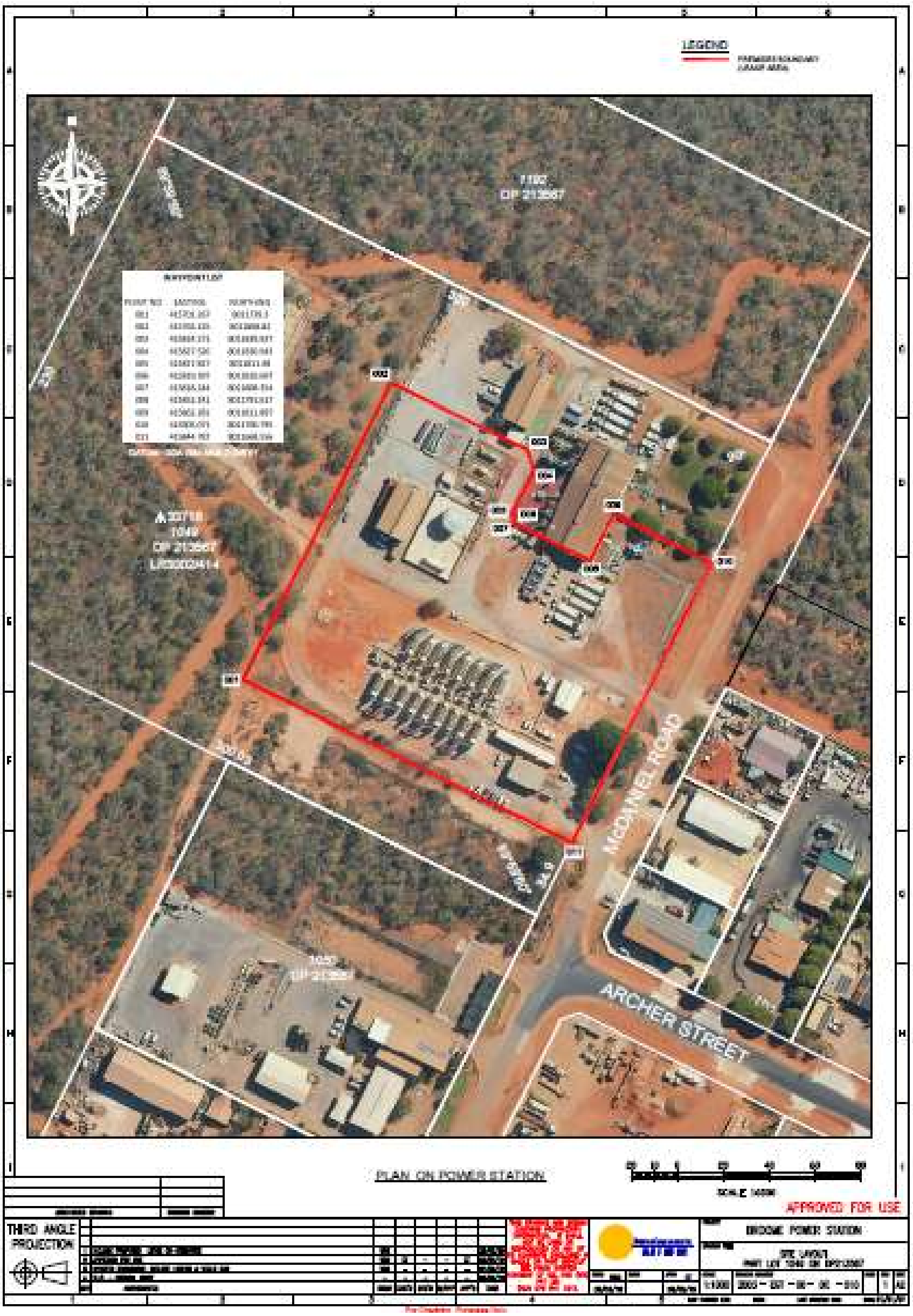

Figure 1: Map of the boundary of the prescribed premises

Premises layout

The layout of the prescribed premises is shown in the map below (Figure 2).

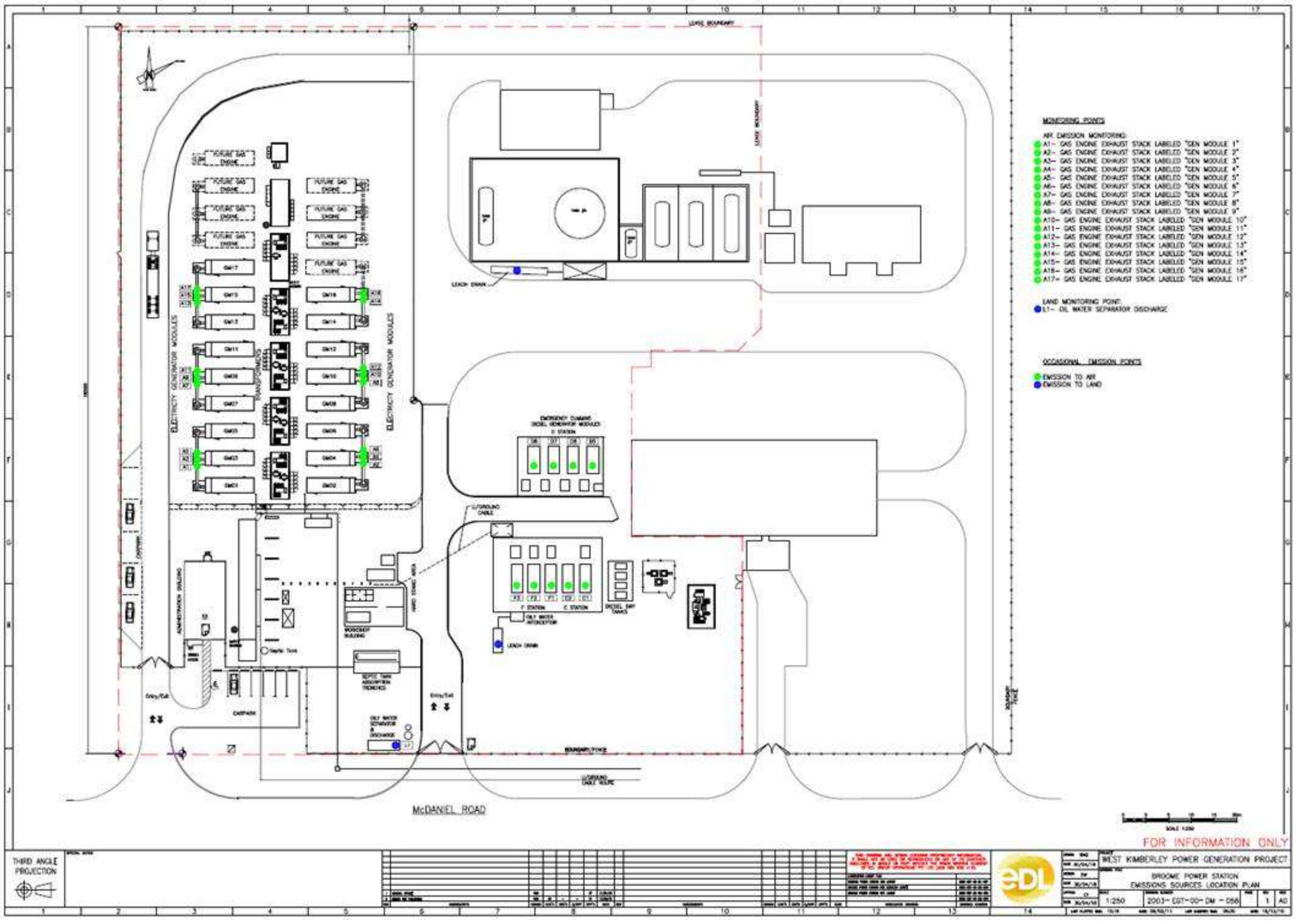

Figure 2: Premises layout